



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

RBE1X36-176-779-2-PO

Job Sheet 182583



Part No: RBE1X36-176-779-2-PO

Job Qty: 1 ea

Part Name: Driver



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 8/28/18

Job Tracking No:

Due Date: 10/22/18

Created By: Patrick Lussier

Type: Stock

Description:

Note: DWG RBE1X36-176-779 Rev. 2 IPP Rev. A 18.08.28 New issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	1 pcs		10/22/18	0.00	0.00	Purchasing		OCT 23 2018
110	Packaging	1 pcs		10/22/18	0.00	0.00	Packaging2		OCT 23 2018
120	QC	1 pcs		10/22/18	0.00	0.00	QC6		38
140	QC	1 pcs		10/22/18	0.00	0.00	QC5 N/A		9-89
150	Packaging	1 pcs		10/22/18	0.00	0.00	Packaging3		
160	QC21-FG	1 Ea		10/22/18	0.00	0.00	QC21		OCT 26 2018

Part Op 100 - Issue PO to ARROW TECH MACHINE WORKS P/O: 040860 MANUFACTURE RBE1X36-176-779-2 AS PER Descriptions: DWG -Certificate of conformity is required

aug 27. 2018 x 1 R h

GA

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
RBE1X36-176-779-2P	Driver	1 Ea (1 ea)	100-Purchasing	5120455

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	RBE1X36-176-779-2P	1	0	0

Part Specifications

Specifications could not be found.

Plex 8/28/18 1:13 PM dart.Lussier.Patrick



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S120456



Part: RBE1X36-176-779-2

Job No: 182583

Serial No/Batch: S120456

Revision: 2

Inspector:

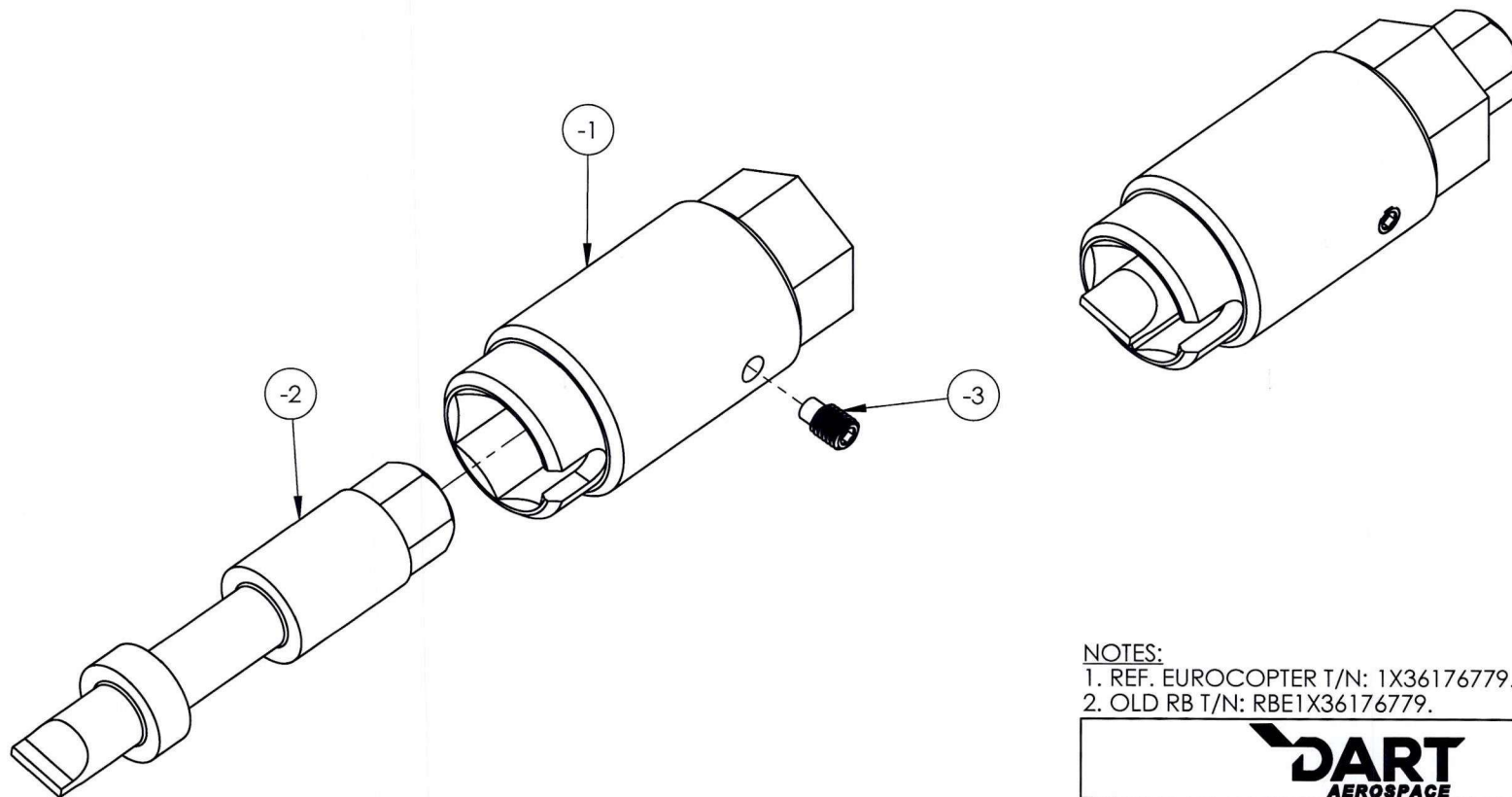
Exp Date:

Instructions:

Date: 10/23/18

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		ADDED -1 Ø.790 X 120° CHAMFER TO .677 HEX FEATURE & DELTED GROOVE FROM CENTER OF TOOL PER G.E. CH'D -2 ENGRAVE NOTE FROM T/N TO P/N.	3/8/2012	RJC	GE
1A		CH'D T/N FROM RBE1X36176779 TO RBE1X36-176-779 AND TOOL NAME FROM SPANNER TO SOCKET WRENCH. ADDED NOTES 1 AND 2.	10/9/2013	RJC	RW
2	16-0102	UPDATED TO NEW STANDARD. -1 REMOVED DIM 2X .055 X 45°. CH'D MAT'L WAS 4140 IS 4140/4142. CH'D DIM WAS 3X .055 X 45° IS 3X .06 X 45°, WAS M5X0.8 TAPPED HOLE IS M5X0.8 - 6H THRU. -2 CH'D FINISH WAS BLACK ANODIZE IS BLACK OXIDE. REMOVED DIM .564. ADDED DIM .657.	8/11/2016	DEW	SM



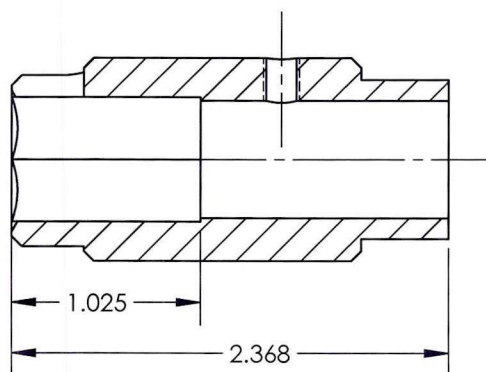
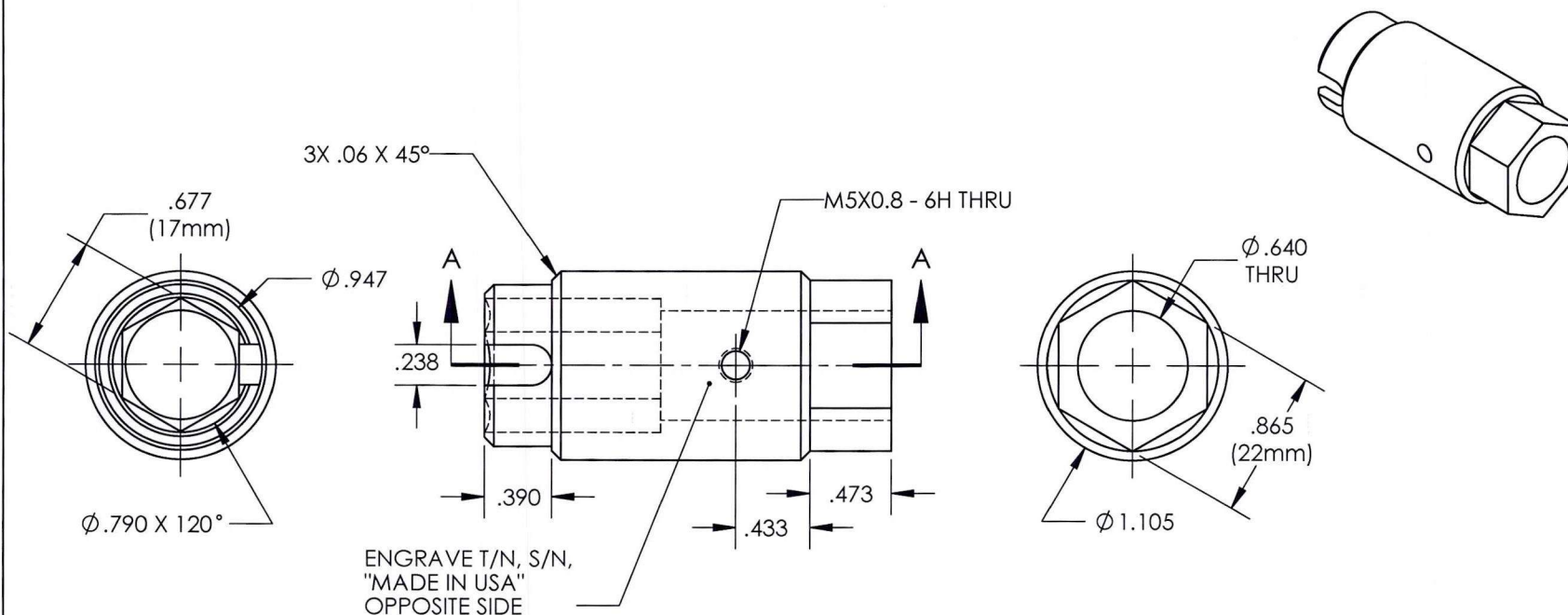
- NOTES:
 1. REF. EUROCOPTER T/N: 1X36176779.
 2. OLD RB T/N: RBE1X36176779.

DART AEROSPACE	
TITLE SOCKET WRENCH	
DWG NO. RBE1X36-176-779	
REV 2	
MAT'L	UNLESS OTHERWISE SPECIFIED
HEAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± 5°
	.X ± .1 SURFACES = 125/
DRAWN BY: CLOUGH	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:1	USED ON MODEL
DATE 10/4/2011	EC 135
SHEET 1 OF 3	

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			-1	1	SLEEVE	4140/4142		
			-2	1	DRIVER	H-13		
		B/O	-3	1	SET SCREW	S.S.	M5 X .8mm X 2.75mm (MCMaster-CARR #92905A114)	1

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		ADDED -1 ϕ .790 X 120° CHAMFER TO .677 HEX FEATURE & DELETED GROOVE FROM CENTER OF TOOL PER G.E.	3/8/2012	RJC	GE
2	16-0102	-1 REMOVED DIM 2X .055 X 45°. CH'D MAT'L WAS 4140 IS 4140/4142. CH'D DIM WAS 3X .055 X 45° IS 3X .06 X 45°, WAS M5X0.8 TAPPED HOLE IS M5X0.8 - 6H THRU.	8/11/2016	DEW	SM



SECTION A-A

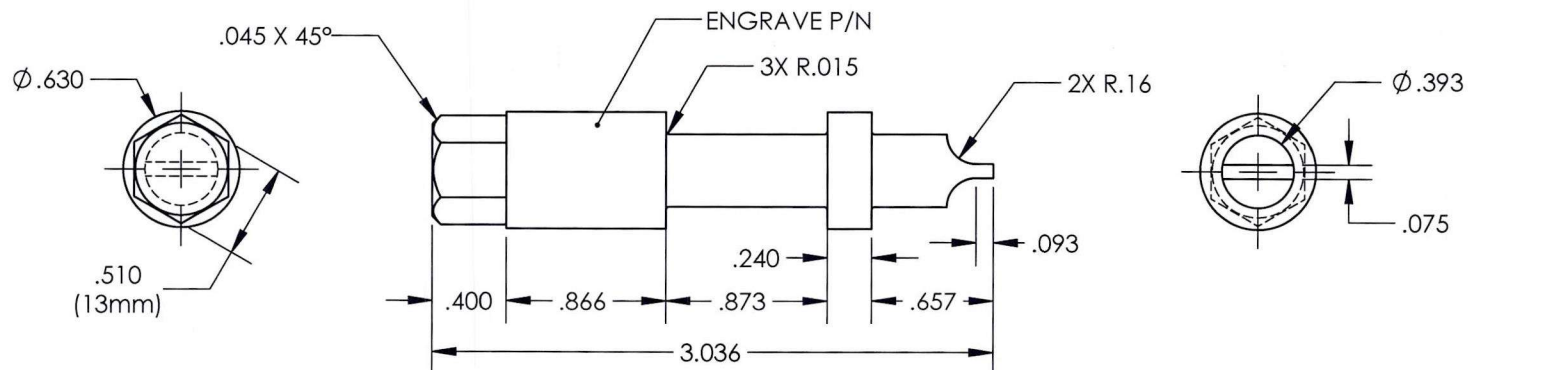
(1)

SLEEVE

DART AEROSPACE	
TITLE SOCKET WRENCH	
DWG NO. RBE1X36-176-779-1	REV 2
MAT'L 4140/4142 HEAT TREAT RC 44-48 FINISH BLACK OXIDE SPEC	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES = 125✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: CLOUGH	USED ON MODEL
CHECKED: DUERFELDT	EC 135
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: MACKOVJAK	
SCALE 1:1	DATE 10/4/2011
SHEET 2 OF 3	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		CH'D -2 ENGRAVE NOTE FORM T/N TO P/N.	3/8/2012	RJC	GE
2	16-0102	-2 CH'D FINISH WAS BLACK ANODIZE IS BLACK OXIDE, REMOVED DIM .564. ADDED DIM .657.	8/11/2016	DEW	SM



(-2)
DRIVER

DART AEROSPACE	
TITLE SOCKET WRENCH	
DWG NO. RBE1X36-176-779-2	REV 2
MAT'L H-13	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT RC 48-52	.XXX $\pm$.005 FRACTIONS $\pm$ 1/8
FINISH BLACK OXIDE	.XX $\pm$.01 ANGLES $\pm$ 5°
SPEC QMSI-6.2.2, B.O. REV D	.X $\pm$.1 SURFACES = 125
DRAWN BY: CLOUGH	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: MACKOVJAK	EC 135
SCALE 1:1	DATE 10/4/2011
SHEET 3 OF 3	



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO040860**

Supplier: ARR002-VU
Arrow Tech Machine Works
29751 E. Enid Road,
Unit C
Eugene, OR 97402 USA
Phone: 541-780-6938
Fax: 458-215-4938

PO No: PO040860
PO Date: 8/27/18
Due Date: 10/22/18
Purchase Order
Revision:
Revision Date:
Ship-To Contact: Phone:

Revision

Ship To:

Pymt Terms: Net 30
Freight Terms:
Special Comments:

Items													
Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	182576	RBEB670-P0001-101P			Positioning Guage	Firmed	-	10/22/18	1 Ea	0 Ea	1 Ea	\$1,255.90/Ea	\$1,255.90
						1 X	OCT 2 2 2018						
2	182578	RBT18632p			landing gear brng install/rmvl tool	Firmed	-	10/22/18	1 pcs	0 pcs	1 pcs	\$713.21/pcs	\$713.21
						1 X	OCT 2 2 2018						
3	182579	RBH9807p			Main Transmission Drain Tool	Firmed	-	10/2/18	1 pcs	0 pcs	1 pcs	\$495.42/pcs	\$495.42
						1 X	OCT 0 3 2018						
4	182580	RBA9829-AP			Main Rotor Mast Nut Wrench (RB Design)	Firmed	-	10/22/18	1 Ea	0 Ea	1 Ea	\$613.00/Ea	\$613.00
						1 X	OCT 2 2 2018						
5	182581	RBH9807p			Main Transmission Drain Tool	Firmed	-	10/22/18	1 pcs	0 pcs	1 pcs	\$495.42/pcs	\$495.42
						1 X	OCT 2 2 2018						
6	182583	RBE1X36-176-779-2P			Driver	Firmed	-	10/22/18	1 Ea	0 Ea	1 Ea	\$1,363.09/Ea	\$1,363.09
						1 X	OCT 2 2 2018						
7	182584	RBT18526P			Main Rotor Blade Bolt Extractor	Firmed	-	10/22/18	1 Ea	0 Ea	1 Ea	\$813.00/Ea	\$813.00
						1 X	OCT 2 2 2018						
Grand Total:												\$5,749.04	

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Dart Aerospace Ltd.
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Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO040860

Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY
A008 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION SENT TO DART AEROSPACE)
A012 CHEMICAL AND PHYSICAL TEST REPORTS
A016 PERSONNEL QUALIFICATION
A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)
A026 CERTIFICATION OF MATERIAL CONFORMANCE
A041 QUALITY MANAGEMENT SYSTEM
A042 DART NOTIFICATION BY SUPPLIER
A043 RETENTION OF QUALITY DOCUMENT

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

A handwritten signature in black ink, appearing to be "RL" or similar, located to the right of the terms and conditions text.

Plex 10/3/18 1:18 PM dart.Lussier.Patrick



**PHGE Machineworks dba
Arrowtech Machineworks**
29751 E Enid Rd. Unit C
Eugene, Oregon 97402
Phone: (541) 780-6938
Fax: (458) 215-4938

Packing Slip

NO. 290

Date: 10/19/2018
PO Ref: 040860 & 040903
Ship via: Fedex Priority

Bill To:
Dart Aerospace
1270 Aberdeen St. Hawkesbury, ON
CANADA K6A 1K7

Ship To:
Dart Aerospace
1271 Aberdeen St. Hawkesbury, ON
CANADA K6A 1K8

Qty	Item	Part No.
1 /	POSITIONING GUAGE ✓	✓ RBEB670-P0001-101 ✓
1 /	LANDING GEAR BEARING TOOL ✓	✓ RBT18632 REV 4 ✓
1 /	MAIN ROTOR MAST NUT WRENCH ✓	✓ RBA9829-A REV 4 ✓
1 /	MAIN TRANSMISSION DRAIN TOOL ✓	✓ RBH9807 REV 1A ✓
1 /	SOCKET WRENCH ✓	✓ RBE1X36-176-779 REV 2 ✓
1 /	M/R BLADE BOLT EXTRACTOR ✓	✓ RBT18526 REV 1 ✓
1 /	SEAL REMOVE & INSTALL KIT ✓	✓ HT-400-SK REV 1B ✓

Received by:

Packaged by: AMP

Checked by: Q.S.

Thank You



ARROW TECH MACHINE WORKS

Certificate of Conformance

Your Purchase Order No:040860

Dated: 10/19/2018

Our Order / Job No:040860-6AWT

Order Qty:1

Part Name: SOCKET WRENCH

Part Number: RBE1X36-176-779

Lot Size:N/A

Ship Date: 10/19/2018

We certify that these parts shipped to you are of domestic or international manufacture and conform to all requirements of the Purchase Order. These parts have been manufactured and inspected in accordance with all required specifications, instructions and drawings. Any applicable specifications are listed below:

Drawing Number: RBE1X36-176-779

Rev:2

Material Size and Type: -1/4140 STEEL; -2/H-13 STEEL

Material Specifications: 4140 STEEL: ASTM A108, ASTM A29; H-13 STEEL: ASTM A681

Heat Treatment:-1/ 48 HRC, -2/50.8 HRC

Plating/Finish: BLACK OXIDE AS PER QMSI-6.2.2 B.O. REV-D

Mercury Contamination: The material used to process this order has not come in contact with mercury or mercury bearing instruments.

Date: 10/19/18

Signed: *Herbert M. Feld*

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9-89

PHGE Machine Works LLC dba Arrow Tech Machine Works
29751 E. Enid Rd. Unit C Eugene, Oregon 97402
Main: (541) 780-6938 | Fax: (458) 215-4938
www.atechmachineworks.com